

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1768	shlomo.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:22
L2	41	shlafman.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:13
L3	10756	boris.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:13
L4	44	bachelis.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:14
L5	25	I1 near I2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:14
L6	2	I3 near I4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:19
L7	42133	predict?	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:19
L8	279283	model?	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:19
L9	7	I7 adj I8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:20

## EAST Search History

L10	62034	predictive	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:20
L11	116443	modeling	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:20
L12	941	I10 adj I11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:20
L13	49327	superposition	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:22
L14	8933	delta near3 function	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:22
L15	34	mutually adj translated	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:23
L16	1	I15 and I14 and I13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:36
L17	25	I12 and I13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:25
L18	0	I12 and I15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:23
L19	3193	705/35.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:25

## EAST Search History

L20	3380	705/37.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:26
L21	56279	"705"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:26
L22	11	l7 and l21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:26
L23	2405	dirac	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:36
L24	13	l23 and l21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:39
L25	2	l24 and l13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:39
L26	2	("2002/0065755").URPN.	USPAT	OR	ON	2008/01/02 14:40

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1768	shlomo.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:22
L2	41	shlafman.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:13
L3	10756	boris.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:13
L4	44	bachelis.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:14
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L8	279283	model?	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:19
L9	7	I7 adj I8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:20

## EAST Search History

L10	62034	predictive	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:20
L11	116443	modeling	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:20
L12	941	l10 adj l11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:20
L13	49327	superposition	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:22
L14	8933	delta near3 function	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:22
L15	34	mutually adj translated	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:23
L16	1	l15 and l14 and l13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:36
L17	25	l12 and l13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:25
L18	0	l12 and l15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:23
L19	3193	705/35.ccis.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:25

## EAST Search History

L20	3380	705/37.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:26
L21	56279	"705"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:26
L22	11	l7 and l21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:26
L23	2405	dirac	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:36
L24	13	l23 and l21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:39
L25	2	l24 and l13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/02 14:39
L26	2	("2002/0065755").URPN.	USPAT	OR	ON	2008/01/02 14:40
L27	6	("20020065755"   "5148365"   "6021397"   "6061662"   "6263321"   "6456982").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/02 14:41
L28	0	("7236953").URPN.	USPAT	OR	ON	2008/01/02 14:42

# Dia LOG

? logon

\*\*\* It is now 2008/01/02 12:48:23 \*\*\*  
(Dialog time 2008/01/02 12:48:23)

? b 239

02jan08 12:48:32 User264708 Session C7.1  
\$0.00 0.275 DialUnits File415  
\$0.00 Estimated cost File415  
\$0.03 INTERNET  
\$0.03 Estimated cost this search  
\$0.03 Estimated total session cost 0.275 DialUnits

File 239:Mathsci 1940-2007/Dec  
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Set Items Description

? ds

Set	Items	Description
S1	5592	SUPERPOSITION
S2	7629	DELTA (3N) FUNCTION?
S3	2	MUTUALLY (3N) TRANSLATED
S4	0	S1 (15N) S3 (5N) S2
S5	0	S1 AND S2 AND S3
S6	48	S1 AND S2
S7	9413	RANDOM (3N) VARIABLE
S8	0	S7 AND S6

? t s6/medium,k/all

6/K/1

DIALOG(R)File 239: Mathsci  
(c) 2007 American Mathematical Society. All rights reserved.

03981083 MR 2007k#00009

**Music: a mathematical offering.**

Benson, Davé (Department of Mathematics, University of Aberdeen, Aberdeen, AB9 2UB, Scotland)  
( Benson, David John )

**Corporate Source Codes:** 4-ABER

**Publisher:** Cambridge University Press, Cambridge,  
2007 , xiv+411 pp. **ISBN:** 978-0-521-61999-8; 0-521-61999-8

**Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (54 lines)

**Reviewer:** Scriba, C. J. (Hamburg)

...ear recognizes and analyzes it, the partial differential equations of sine waves and frequency spectrum, superposition , damped harmonic motion and resonance are presented. The second chapter, on Fourier theory, must be ... ...blocks and unison vectors, and septimal harmony. Purely mathematical is Chapter 7 on digital music: delta functions and sampling, digital filters, the discrete and the fast Fourier transform are among the topics ...

**Dialog eLink:** STIC Full Text Retrieval Options

6/K/2

DIALOG(R)File 239: Mathsci

(c) 2007 American Mathematical Society. All rights reserved.

03947050 MR 2007h#81237

**Analytical solution of the compressed, one-dimensional delta atom via quadratures and exact, absolutely convergent periodic-orbit expansions.**

Blumel, R. (Department of Physics, Wesleyan University, Middletown, Connecticut, 06459)

( Blumel, Reinhold )

**Corporate Source Codes:** 1-WESL-P

J. Phys. A

Journal of Physics. A. Mathematical and General , 2006 , 39 , no. 26, 8257--8282.

**ISSN:** 0305-4470 **CODEN:** JPHAC5

**Language:** English **Summary Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (16 lines)

**Reviewer:** Summary

...compressed hydrogen atom where the finite-range Coulomb potential is replaced by a zero-range delta function . The spectral equation of the compressed delta atom is transcendental. Nevertheless, using recently developed quadrature... ...exact and analytical solution of other one-dimensional quantum problems with potentials consisting of a superposition of delta - function potentials and piecewise constant potentials."

6/K/3

DIALOG(R)File 239: Mathsci

(c) 2007 American Mathematical Society. All rights reserved.

03922575 MR 2007f#81001

**Quantum mechanics: fundamentals.**

Second edition.

Gottfried, Kurt (Laboratory of Elementary Particle Physics, Cornell University, Ithaca, New York, 14853)

Yan, Tung-Mow (Laboratory of Elementary Particle Physics, Cornell University, Ithaca, New York, 14853)

**Corporate Source Codes:** 1-CRNL-LEP; 1-CRNL-LEP

**Publisher:** Springer, New York,

2004 , xviii+620 pp. **ISBN:** 0-387-22023-2

**Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (506 lines)

**Reviewer:** Brandt, Howard E. (Silver Spring, MD)

...mechanics, but begins in Chapter 1 with discussions of some fundamental concepts: complementarity, uncertainty, quantum superposition , two-particle interferometry, and quantum correlations. The linearity of quantum mechanics is emphasized, but it...

...dimensional potential are calculated. The Green's function is derived for the case of a delta - function potential. Resonant transmission and reflection amplitudes are elaborated, the Breit-Wigner formula for elastic scattering...

**Dialog eLink:** [STIC Full Text Retrieval Options](#)

6/K/4

DIALOG(R)File 239: Mathsci

(c) 2007 American Mathematical Society. All rights reserved.

03907848 MR 2007c#35039

**On the three-dimensional Neumann boundary value problem with a generalized boundary condition in a domain with a smooth closed boundary.**

Setukha, A. V. (N. E. Zhukovskii Military Aviation Technological University, 125190 Moscow, Russia)

**Corporate Source Codes:** RS-MATU

Differ. Uravn.

Differentsialnye Uravneniya , 2005 , 41 , no. 9, 1177--1189, 1293. **ISSN:** 0374-0641

**Language:** Russian **Summary Language:** Russian

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (19 lines)

**Reviewer:** Summary

...problem for the case when the right-hand side of the boundary condition is a delta function with support at an arbitrary point of the surface. For the case when the right...

...the existence of a solution of the problem, and this solution is constructed as a superposition of elements of the system of fundamental solutions."

**Dialog eLink:** [STIC Full Text Retrieval Options](#)

6/K/5

DIALOG(R)File 239: Mathsci

(c) 2007 American Mathematical Society. All rights reserved.

03880170 MR 2006k#81435

**The Fourier transform method and the  $\overline{S}$  approach for the analytical and numerical treatment of multicenter overlap-like quantum similarity integrals.**

Safouhi, Hassan (Department of Mathematics, University of Alberta, Edmonton, Alberta, T6G 2E1, Canada)

Berlu, Lilian

**Corporate Source Codes:** 3-AB

J. Comput. Phys.

Journal of Computational Physics , 2006 , 216 , no. 1, 19--36. ISSN: 0021-9991

**CODEN:** JCTPAH

**Language:** English **Summary Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (26 lines)

**Reviewer:** Summary

...measurements imply the evaluation of overlap integrals of two molecular electronic densities related by Dirac delta function . When the electronic densities are expanded over atomic orbitals using the usual LCAO-MO approach... ...of four-center overlap integrals.

It is shown that by introducing the Fourier transform of delta Dirac function in the integrals and using the Fourier transform approach combined with the so-called \$B...

**Dialog eLink:** [STIC Full Text Retrieval Options](#)

6/K/6

DIALOG(R)File 239: Mathsci

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03738273 MR 2005k#35062

**Fundamental solutions of the two-dimensional Neumann boundary value problem for the Laplace equation.**

Setukha, A. V. (N. E. Zhukovskii Military Aviation Technological University, 125190 Moscow, Russia)

**Corporate Source Codes:** RS-MATU

Differ. Equ.

Differential Equations , 2003 , 39 , no. 1, 135--144 ISSN: 0012-2661 **CODEN:** DIEQAN

**Source:** Differ. Uravn. , (2003), , 39 , no. 1,, 125--132, 144 **ISSN:** 0374-0641

**Language:** English

**Original Language:** Russian **Original Summary Language:** Russian

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (14 lines)

**Reviewer:** Summary

...derivative of the unknown function on the boundary of the domain is equal to the delta function concentrated at a given point of the boundary. Here the boundary condition is understood in... ...function, and we obtain an integral representation for the solution in the

form of a superposition of fundamental solutions."

**Dialog eLink: STIC Full Text Retrieval Options**

6/K/7

DIALOG(R)File 239: Mathsci

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03729124 MR 2005j#35210

**On the asymptotic behavior of large radial data for a focusing non-linear Schrodinger equation.**

Tao, Terence (Department of Mathematics, University of California, Los Angeles, California, 90024)

**Corporate Source Codes:** 1-UCLA

Dyn. Partial Differ. Equ.

Dynamics of Partial Differential Equations , 2004 , 1 , no. 1, 1--48. ISSN: 1548-159X

**Language:** English **Summary Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (50 lines)

**Reviewer:** Albert, John (1-OK)

...which do not blow up in finite time resolve, as  $t \rightarrow \infty$ , into a superposition of a finite number of travelling-wave solutions plus a remainder (the ``dispersive radiation'') which... ...things, the microlocal analysis of the effect of the free Schrodinger operator  $\Delta$  on spherically symmetric functions . The argument is quite technical but is fortunately accompanied by a generous quantity of heuristic...

**Dialog eLink: STIC Full Text Retrieval Options**

6/K/8

DIALOG(R)File 239: Mathsci

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03716231 MR 2005i#14055

**Decomposition into pairs-of-pants for complex algebraic hypersurfaces.**

Mikhalkin, Grigory (Department of Mathematics, University of Utah, Salt Lake City, Utah, 84112)

( Mikhalkin, G. B. )

**Corporate Source Codes:** 1-UT

Topology

Topology. An International Journal of Mathematics , 2004 , 43 , no. 5, 1035--1065.

ISSN: 0040-9383 CODEN: TPLGAF

**Language:** English **Summary Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (60 lines)

**Reviewer:** Sankaran, G. K. (4-BATH-SM)

... $0,0,\dots,d$  and  $(0,\dots,0)$ . More precisely, it is determined by a function  $v$ colon  $A = \Delta \subset d \cap \{Bbb Z\}^{n+1} \rightarrow \{Bbb R\}$ , by  $\forall i = \{y \in \dots$

**Dialog eLink:** [STIC Full Text Retrieval Options](#)

6/K/9

DIALOG(R)File 239: Mathsci

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03641497 MR 2005b#81017

**Parity measurements, decoherence and spiky Wigner functions.**

Ozorio de Almeida, A. M. (Department of Mathematics, Brazilian Center for Physics Research (CBPF/CNPq), 22.290 Rio de Janeiro, Brazil)

Brodier, O. (Department of Mathematics, Brazilian Center for Physics Research (CBPF/CNPq), 22.290 Rio de Janeiro, Brazil)

**Corporate Source Codes:** BR-CBPF; BR-CBPF

J. Phys. A

Journal of Physics. A. Mathematical and General , 2004 , 37 , no. 24, L249--L255.

ISSN: 0305-4470 CODEN: JPHAC5

**Language:** English **Summary Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (14 lines)

**Reviewer:** Summary

**Dialog eLink:** [STIC Full Text Retrieval Options](#)

6/K/10

DIALOG(R)File 239: Mathsci

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03638695 MR 2005b#35043

**On the construction of fundamental solutions of the Neumann boundary value problem in a domain outside an open plane surface.**

Setukha, A. V. (N. E. Zhukovskii Military Aviation Technological University, 125190 Moscow, Russia)

**Corporate Source Codes:** RS-MATU

Differ. Equ.

Differential Equations , 2002 , 38 , no. 4, 528--540 ISSN: 0012-2661 CODEN: DIEQAN

**Source:** Differ. Uravn. , (2002), , 38 , no. 4, , 505--515, 574 ISSN: 0374-0641

**Language:** English

**Original Language:** Russian **Original Summary Language:** Russian

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (15 lines)

**Reviewer:** Burys, Stanislaw (PL-JAGL)

... $\|M\|_{L^{\infty}(\Sigma)} = \mu(M) = 0$ . When  $f$  is the  $\delta$ -function the solution of the problem is called the fundamental solution. After construction of a fundamental... ...in  $C(\Sigma) \cap L^{\infty}(\Sigma)$ , a solution to the problem as a superposition of fundamental solutions. The behaviour of this solution near  $\partial\Sigma$  is also investigated.

**Dialog eLink:** [STIC Full Text Retrieval Options](#)

6/K/11

DIALOG(R)File 239: Mathsci

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03626080 MR 2005a#81098

**Physical wavelets and their sources: real physics in complex spacetime.**

Kaiser, Gerald

J. Phys. A

Journal of Physics. A: Mathematical and General , 2003 , 36 , no. 30, R291--R338.

**ISSN:** 0305-4470 **CODEN:** JPHAC5

**Language:** English **Summary Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (23 lines)

**Reviewer:** Mieck, Bernhard (D-ESSN-P)

...beams whose origin, direction and focus are all governed by  $z$  and which give, by superposition, 'wavelet representations' of acoustic and electromagnetic waves. Recently this idea has been developed substantially by... ...understanding of the source distributions required to launch and absorb the wavelets, defined as extended delta functions . The unexpected simplicity and complex structure of the sources in the Fourier domain suggests their...

**Dialog eLink:** [STIC Full Text Retrieval Options](#)

6/K/12

DIALOG(R)File 239: Mathsci

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03538159 MR 2004f#81082

**A theory for quantum accelerator modes in atom optics.**

Special issue in honor of Michael E. Fisher's 70th birthday (Piscataway, NJ, 2001).

Fishman, Shmuel (Department of Physics, Technion---Israel Institute of Technology, Haifa 32000, Israel)

Guarneri, Italo (Center for the Study of Dynamical Systems, Universita dell'Insubria, 22100 Como, Italy)

Rebuzzini, Laura (Center for the Study of Dynamical Systems, Universita dell'Insubria, 22100 Como, Italy)

**Corporate Source Codes:** IL-TECH-P; I-INS-DY; I-INS-DY

J. Statist. Phys.

Journal of Statistical Physics , 2003 , 110 , no. 3-6, 911--943. ISSN: 0022-4715

**CODEN:** JSTPSB

**Language:** English **Summary Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (111 lines)

**Reviewer:** Cheon, Taksu (Tosayamada)

...operative periodically in the form of short-time pulse, which is modeled by periodic temporal delta - functions . The kick is also assumed to have  $2\pi$ -periodic spatial modulation given by a.... state of a kicked particle system, in its momentum representation, can be expressed as a superposition of " $\beta$ -rotor" states. A kicked  $\beta$ -rotor is a fictitious system of a particle.... tunneling.

Quantum accelerator modes carry over to the particle dynamics which is expressible as a superposition of  $\beta$ -rotor dynamics. There is one complication here. Although a propagator of particle dynamics...

6/K/13

DIALOG(R)File 239: Mathsci

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03426646 MR 2003h#81240

**The non-relativistic scattering problem for a superposition of  $\delta$ -potentials.**

Operator methods in ordinary and partial differential equations (Stockholm, 2000)

Kapshai, V. (Department of Physics, Gomel State University, 246699 Gomel, Belarus)

Alferova, T. (Department of Physics, Gomel State University, 246699 Gomel, Belarus)

Elander, N. (Department of Physics, University of Stockholm, 113 46 Stockholm, Sweden)

**Corporate Source Codes:** BE-GOML-P; BE-GOML-P; S-STOC-P

2002 ,

Birkhauser, Basel, ; 207--217,,

**Series:** Oper. Theory Adv. Appl., 132,

**Language:** English **Summary Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (13 lines)

**Reviewer:** Kurasov, Pavel B. (S-LUNDT)

**The non-relativistic scattering problem for a superposition of  $\delta$ -potentials.**

...authors study the three-dimensional Schrodinger equation with the potential given by a sum of delta functions supported by concentric spheres. To calculate the eigenstates and resonances the problem is reformulated in...

**Dialog eLink:** STIC Full Text Retrieval Options

6/K/14

DIALOG(R)File 239: Mathsci

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03297491 MR 2002h#26020

**On the impossibility of obtaining  $(n+1)$ -place continuous functions from  $n$ -place ones using some continuous operators.**

Marchenkov, S. S. (Keldysh Institute of Applied Mathematics, Russian Academy of Sciences, 125047 Moscow, Russia)

**Corporate Source Codes:** RS-AOS-M

Sb. Math.

Sbornik. Mathematics , 2001 , 192 , no. 5-6, 863--878 ISSN: 1064-5616

**Source:** Mat. Sb. , (2001), , 192 , no. 6, , 71--88 ISSN: 0368-8666

**Language:** English

**Original Language:** Russian **Original Summary Language:** Russian

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (20 lines)

**Reviewer:** Simsa, Jaromir (CZ-AOS2)

...0,1]. For any continuous mapping  $f: I^n \rightarrow I$ , a nonincreasing function  $\delta: R^+ \rightarrow R^+$ , with  $\delta(0+) = 0$ , is called a...

**Descriptors:** \* 26B40 -Real functions (See also 54C30)-Functions of several variables-Representation and superposition of functions

**Dialog eLink:** [STIC Full Text Retrieval Options](#)

6/K/15

DIALOG(R)File 239: Mathsci

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03251410 MR 2002c#35264

**On a class of functional-differential parabolic equations in nonlinear optics.**

Razgulin, A. V. (Department of Mathematics, Moscow State University, 117234 Moscow, Russia)

**Corporate Source Codes:** RS-MOSC

Differ. Equ.

Differential Equations , 2000 , 36 , no. 3, 449--456 ISSN: 0012-2661 CODEN: DIEQAN

**Source:** Differ. Uravn. , (2000), , 36 , no. 3, , 400--407, 431 ISSN: 0374-0641

**Language:** English

**Original Language:** Russian **Original Summary Language:** Russian

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (30 lines)

**Reviewer:** Kamchatnov, Anatoly M. (RS-AOS-SC)

... $t$ ,  $x_1, x_2 \in \Omega$ ,  $K$  is some known function,  $\Delta = \partial_{x_1} + \partial_{x_2} G(x, t; u)$  of the feedback light wave which is determined by a superposition of the map  $u \mapsto I(u)$  and the transformation

\$G=G(y)\colon\boldsymbol{\colon}

**Dialog eLink: STIC Full Text Retrieval Options**

6/K/16

DIALOG(R)File 239: Mathsci

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03221181 MR 2001m#78001

**Some new results in multiphase geometrical optics.**

Runborg, Olof (Program in Applied and Computational Mathematics (PACM), Princeton University, Princeton, New Jersey, 08544)

**Corporate Source Codes:** 1-PRIN-AM

M2AN Math. Model. Numer. Anal.

M2AN. Mathematical Modelling and Numerical Analysis , 2000 , 34 , no. 6, 1203--1231. **ISSN:** 0764-583X

**Language:** English **Summary Language:** English, French

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (16 lines)

**Reviewer:** Summary

...the density function in the kinetic equation. We consider two different closure assumptions based on delta and Heaviside functions and analyze the resulting equations. They form systems of nonlinear conservation laws with source terms. In contrast to the classical eikonal equation, these equations will incorporate a 'finite' superposition principle in the sense that while the maximum number of phases is not exceeded a...

6/K/17

DIALOG(R)File 239: Mathsci

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03211339 MR 2001k#81002

**Visual quantum mechanics.**

Selected topics with computer-generated animations of quantum-mechanical phenomena. With 1 CD-ROM (Windows and Macintosh).

Thaller, Bernd (Mathematisches Institut, Karl-Franzens-Universitat Graz, 8010 Graz, Austria)

**Corporate Source Codes:** A-GRAZ

**Publisher:** Springer-Verlag--TELOS, New York,  
2000 , xiv+283 pp. **ISBN:** 0-387-98929-3

**Language:** English **Summary Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (117 lines)

**Reviewer:** DeFacio, Brian (1-MO-PA)

...delta is properly called a Dirac delta distribution, and the author reminds readers the

Dirac delta is not a function because it isn't locally integrable.

Clear, informative discussions of a number of important quantum... ...the top of page 66 isn't correct as written. As a simple example, the superposition  $\psi$ , of any two non-degenerate (distinct,  $E_1 \neq E_2$ ) energy...

**Dialog eLink:** [STIC Full Text Retrieval Options](#)

6/K/18

DIALOG(R)File 239: Mathsci

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03057059 MR 2000i#33013

**Transformations of Laguerre 2D polynomials with applications to quasiprobabilities.**

Wunsche, Alfred (Institut fur Physik, Humboldt-Universitat, D-10115 Berlin, Germany)

**Corporate Source Codes:** D-HUMB-IP

J. Phys. A

Journal of Physics. A. Mathematical and General , 1999 , 32 , no. 17, 3179--3199.

**ISSN:** 0305-4470 **CODEN:** JPHAC5

**Language:** English **Summary Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (37 lines)

**Reviewer:** Witschel, W. (D-ULM-B)

...for the square product of 2D Laguerre polynomials. A limit process leading to a 2D  $\delta$ -function allows the author to prove completeness for 2D Laguerre functions. A general transformation and its inverse are introduced allowing the expressions of functions as the superposition by functions of the same type. Applications of this transformation are the expression of  $z$ ... ...limit processes for 2D Laguerre polynomials. They can be expressed by derivatives of a 2D  $\delta$ -function , or derivatives of a 2D  $\delta$ -function can be expressed by 2D Laguerre polynomials. The formulas are checked numerically. Thus,  $\delta$ -functions can be defined by a limiting procedure from regular functions. This formalism is applied to...

6/K/19

DIALOG(R)File 239: Mathsci

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02891195 MR 99d#46043

**Modular function spaces.**

Kozlowski, Wojciech M. (Mathematics Institute, Jagiellonian University, 31-007 Krakow, Poland)

**Corporate Source Codes:** PL-JAGL

**Publisher:** Marcel Dekker, Inc., New York,  
1988 , x+252 pp. **ISBN:** 0-8247-8001-9

**Series:** Monographs and Textbooks in Pure and Applied Mathematics, 122.

**Language:** English **Summary Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (29 lines)

**Reviewer:** Abramovich, Yu. A. (1-INPI)

...Fatou property, Completeness of modular function spaces, Subspace  $E_{\rho}$ , Compactness and separability; 3. Function semimodulars: further results:  $\Delta_2$ -condition and equivalence property, Atomless function semimodulars,  $\Delta_2$ -condition, Linear functionals; 4. Special cases: Musielak-Orlicz spaces, Some generalizations, Nonmonotone convex...

**Descriptors:** ; ...Nonlinear operators (For global and geometric aspects, see 58-XX, especially 58Cxx)-Particular nonlinear operators ( superposition , Hammerstein, Nemytskii, Uryson, hysteresis operators, etc.) (See also 45P05)

**Dialog eLink:** [STIC Full Text Retrieval Options](#)

6/K/20

DIALOG(R)File 239: Mathsci

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02654588 MR 97c#58067

**The application of the  $\overline{\partial}$ -dressing method to some integrable  $(2+1)$ -dimensional nonlinear equations.**

Dubrovsky, V. G.

( Dubrovskii, V. G. )

J. Phys. A

Journal of Physics. A. Mathematical and General , 1996 , 29 , no. 13, 3617--3630.

ISSN: 0305-4470 CODEN: JPHAC5

**Language:** English **Summary Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (12 lines)

**Reviewer:** Leon, Jerome (F-MONT2-MP)

...problem) where the entry distribution is chosen either to be degenerate or as a simple superposition of Dirac delta functions.

6/K/21

DIALOG(R)File 239: Mathsci

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02636786 MR 97a#00002

**Boundary value problems of applied mathematics.**

Troutman, John L. (Department of Mathematics, Syracuse University, Syracuse, New York, 13210)

Bautista, Maurino (Department of Mathematics, Rochester Institute of Technology,

Rochester, New York, 14623)

**Corporate Source Codes:** 1-SRCS; 1-RIT

**Publisher:** PWS Publishing Company, Boston, MA,

1994 , xii+491 pp. **ISBN:** 0-534-19116-9

**Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (60 lines)

**Reviewer:** From the preface

...We learn to appreciate the mathematical advantages of operating within a linear framework and develop superposition methods to handle related problems. For these problems we find solutions in the form of... ...contained and its results are established without appeal to either the Lebesgue integral, the Dirac delta 'function' or the contour integral methods of complex analysis. It incorporates the simplified approach to minimizing...

**Dialog eLink:** STIC Full Text Retrieval Options

6/K/22

DIALOG(R)File 239: Mathsci

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02576069 **MR** 96f#49004

**Connexite des sous-niveaux des fonctionnelles integrales.**

Connectivity of the sublevels of integral functionals

Raymond, Jean Saint (Departement de Mathematiques, Universite de Paris VI (Pierre et Marie Curie), 75230 Paris, France)

( Saint Raymond, Jean )

**Corporate Source Codes:** F-PARIS6

Rend. Circ. Mat. Palermo (2)

Rendiconti del Circolo Matematico di Palermo. Serie II , 1995 , 44 , no. 1, 162--168.

**ISSN:** 0009-725X **CODEN:** RCMMAR

**Language:** French **Summary Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (30 lines)

**Reviewer:** Bottaro Aruffo, Ada (Genoa)

... $\subset L^p(\mu), \subset D \mapsto \inf_{\bf R} J(f, u)$  is an increasing function,  $\Delta$  is a decomposable part of  $L^p(\mu, E), f \in E \times T, f(u, \cdot) \in D$  for every  $u \in \Delta$ , then the sublevels of the functional  $u \in \Delta \mapsto J(f, u)$  are connected.

**Descriptors:** ; ...Nonlinear operators (For global and geometric aspects, see 58-XX, especially 58Cxx)-Particular nonlinear operators (superposition, Hammerstein, Nemytskii, Uryson, hysteresis operators, etc.) (See also 45P05)

**Dialog eLink:** STIC Full Text Retrieval Options

6/K/23

DIALOG(R)File 239: Mathsci

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02547526 MR 96b#47061

**The diagonalization and computation of some nonlinear integral operators.**

Mandhyan, Indur B.

Nonlinear Anal.

Nonlinear Analysis. Theory, Methods & Applications. An International Multidisciplinary Journal , 1994 , 23 , no. 4, 447--466. ISSN: 0362-546X CODEN: NOANDD

**Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (25 lines)

**Reviewer:** Timourian, J. G. (3-AB)

...in the spirit of the classical results of A. Ambrosetti and G. Prodi for the function  $u \mapsto \Delta u + f(u)$  [Ann. Mat. Pura Appl. (4) 93 (1972), 231--246; MR 47#9377...]

**Descriptors:** ; ...Nonlinear operators (For global and geometric aspects, see 58-XX, especially 58Cxx)-Particular nonlinear operators ( superposition , Hammerstein, Nemytski\u0107i, Uryson, hysteresis operators, etc.) (See also 45P05...)

**Dialog eLink:** [STIC Full Text Retrieval Options](#)

6/K/24

DIALOG(R)File 239: Mathsci

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02541265 MR 96a#47111

**Integral representation of nonlinear operators.**

The collection of theses of Symposium on Real Analysis (Xiamen, 1993).

Navarro, Milagros P. (Department of Mathematics, College of Science, University of the Philippines, Quezon City, Philippines)

Sy, Polly W. (Department of Mathematics, College of Science, University of the Philippines, Quezon City, Philippines)

**Corporate Source Codes:** PH-PHIL; PH-PHIL

J. Math. Study

Journal of Mathematical Study. Shuxue Yanjiu , 1994 , 27 , no. 1, 142--147. ISSN: 1005-1732

**Language:** English **Summary Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (20 lines)

**Reviewer:** Bartle, R. G. (1-EMI)

...exists  $A \in X$  such that for every  $\epsilon > 0$  there exists a strictly positive function  $\delta$  on  $[0,1]$  such that if  $\{(I_{sb} i, t_{sb} i)\}_{i=1}^\infty$

**Descriptors:** \* ...Nonlinear operators (For global and geometric aspects, see 58-XX, especially 58Cxx)-Particular nonlinear operators ( superposition , Hammerstein,

Nemytski\u0103i, Uryson, hysteresis operators, etc.) (See also 45P05)

**Dialog eLink: STIC Full Text Retrieval Options**

6/K/25

DIALOG(R)File 239: Mathsci

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02536455 MR 95m#76040b

**Linear instability with Ekman and interior friction. II. Initial value analysis.**

Grotjahn, Richard (Department of Land, Air and Water Resources, University of California, Davis, California, 95616)

Pedersen, Roderick

Tribbia, Joseph (National Center for Atmospheric Research, Boulder, Colorado, 80302)

**Corporate Source Codes:** 1-CAD-LW; 1-NCAR

J. Atmospheric Sci.

Journal of the Atmospheric Sciences , 1995 , 52 , no. 6, 764--777. ISSN: 0022-4928

**CODEN:** JAHS4K

**Language:** English **Summary Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (37 lines)

**Reviewer:** Summary

...on the continuum modes than on the normal modes because inviscid continuum modes have a delta - function vertical profile of potential vorticity \$q\$. In contrast, normal modes have much smoother profiles of... ...and with both Ekman and interior friction. The nonmodal growth is described as either a superposition of eigenmodes or as a transfer between the 'thermal' and relative vorticity parts of quasigeostrophic... ...G model, less overlap between the eigenmodes is found and consequently the nonmodal growth by superposition is reduced compared to the Eady model studied previously by others."

**Dialog eLink: STIC Full Text Retrieval Options**

6/K/26

DIALOG(R)File 239: Mathsci

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02516314 MR 95h#81013

**Limits on the applicability of the tight-binding approximation method.**

Mironov, A. L. (Department of Mathematics, St. Petersburg ``A. A. Zhdanov" State University, 198904 St. Petersburg, Russia)

Oleinik, V. L. (Department of Mathematics, St. Petersburg ``A. A. Zhdanov" State University, 198904 St. Petersburg, Russia)

**Corporate Source Codes:** RS-STPT; RS-STPT

Theoret. and Math. Phys.

Theoretical and Mathematical Physics , 1994 , 99 , no. 1, 457--469 **ISSN:** 0040-5779 **CODEN:** TMPHAH

**Source:** Teoret. Mat. Fiz. , (1994), , 99 , no. 1, , 103--120 **ISSN:** 0564-6162

**Language:** English

**Original Language:** Russian **Original Summary Language:** English, Russian

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (21 lines)

**Reviewer:** Znojil, M. (CZ-AOS-N)

...two asymptotically smooth (namely, exponentially and power-law decreasing) and the last one with a superposition of delta functions ) illustrate the role and relevance of the three interaction characteristics of the force  $q(x)$ ...

**Dialog eLink:** [STIC Full Text Retrieval Options](#)

6/K/27

DIALOG(R)File 239: Mathsci

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02474511 **MR** 94m#47123

**Notes on the compact operators in the Orlicz sequence spaces of multifunctions.**

Kasperski, Andrzej (Institute of Mathematics, Silesia Technical University, 44-100 Gliwice, Poland)

**Corporate Source Codes:** PL-SITU-IM

Demonstratio Math.

Demonstratio Mathematica , 1993 , 26 , no. 3-4, 759--766 (1994). **ISSN:** 0420-1213

**CODEN:** DEMADO

**Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (20 lines)

**Reviewer:** Shragin, Isaac V. (Bad Schwartau)

... $\phi \circ \phi$ , where  $\phi$  and  $\psi$  are convex  $\phi$ -functions with the  $\Delta_2$  condition at zero [J. Lindenstrauss and L. Tzafriri, Classical Banach spaces, Lecture Notes...]

**Descriptors:** \* ...Nonlinear operators (For global and geometric aspects, see 58-XX, especially 58Cxx)-Particular nonlinear operators ( superposition , Hammerstein, Nemytskii, Uryson, hysteresis operators, etc.) (See also 45P05)

**Dialog eLink:** [STIC Full Text Retrieval Options](#)

6/K/28

DIALOG(R)File 239: Mathsci

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02469261 **MR** 94k#47099

**Weakly singular Hammerstein-Volterra operators in Orlicz and Holder spaces.**

Appell, J. (Faculty of Mathematics, W-8700 Wurzburg, Germany)

Vath, M. (Faculty of Mathematics, W-8700 Wurzburg, Germany)

**Corporate Source Codes:** D-WRZBM; D-WRZBM

Z. Anal. Anwendungen

Zeitschrift fur Analysis und ihre Anwendungen. Journal for Analysis and Applications , 1993 , 12 , no. 4, 663--676. ISSN: 0232-2064

**Language:** English **Summary Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (34 lines)

**Reviewer:** Shragin, Isaac V. (Bad Schwartau)

...sp {-\lambda} y(s),ds\$. Here \$0<\lambda<1\$ and \$h\$ is a matrix-valued function , \$h:\Delta \rightarrow \bf{R}^{N \times N}\$, where \$\Delta = \{(t,s) | 0 \leq s ...

**Descriptors:** \* ...Nonlinear operators (For global and geometric aspects, see 58-XX, especially 58Cxx)-Particular nonlinear operators ( superposition , Hammerstein, Nemytski\u{i}, Uryson, hysteresis operators, etc.) (See also 45P05)

**Dialog eLink:** [STIC Full Text Retrieval Options](#)

6/K/29

DIALOG(R)File 239: Mathsci

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02425566 MR 94c#81223

**Conformal symmetry and differential regularization of the three-gluon vertex.**

Freedman, Daniel Z. (Department of Mathematics, Massachusetts Institute of Technology, Cambridge, Massachusetts, 02139)

Grignani, Gianluca (Dipartimento di Fisica, Universita di Perugia, 06100 Perugia, Italy)

Johnson, Kenneth (Laboratory for Nuclear Science, Center for Theoretical Physics, Massachusetts Institute of Technology, Cambridge, Massachusetts, 02139)

Rius, Nuria (Laboratory for Nuclear Science, Center for Theoretical Physics, Massachusetts Institute of Technology, Cambridge, Massachusetts, 02139)

( Johnson, Kenneth A. )

**Corporate Source Codes:** I-MIT; I-PERG-P; I-MIT-NU; I-MIT-NU

Ann. Physics

Annals of Physics , 1992 , 218 , no. 1, 75--120. ISSN: 0003-4916 **CODEN:** ADNYA6

**Language:** English **Summary Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (45 lines)

**Reviewer:** Summary

...point singularity is fully determined by the bare Lagrangian, and scale dependence is restricted to  $\delta$ - functions at the singularity. If gauge fixing could be ignored, one would expect these amplitudes to... ...satisfies is more complicated than the simple Ward identity for the background vertex, and a superposition of  $D_{\mu\nu\rho}$  and  $C_{\mu\nu\rho}$  necessarily satisfies a...

**Dialog eLink: STIC Full Text Retrieval Options**

6/K/30

DIALOG(R)File 239: Mathsci

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02306432 MR 92m#81068

**Topological considerations in quantum theory.**

Al-Jaber, S. M. (Physics Department, Southern Illinois University, Carbondale, Illinois, 62901)

Henneberger, W. C. (Physics Department, Southern Illinois University, Carbondale, Illinois, 62901)

**Corporate Source Codes:** 1-SIL-P; 1-SIL-P

Nuovo Cimento B (11)

Societa Italiana di Fisica. Il Nuovo Cimento. B. Serie 11 , 1992 , 107 , no. 1, 23-37.

**ISSN:** 0369-3554 **CODEN:** NIFBAP

**Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (16 lines)

**Reviewer:** Summary

...one on the physical space  $(0,2\pi)$ , is compared with a Hamiltonian system having delta function barriers at  $\theta=0$  and  $\theta=\pi$ . The case of  $M$  an even integer is... ...at  $\theta=0$ . This non-Hamiltonian system is compared with a Hamiltonian system having a delta function barrier at  $\theta=0$ . We show that many of the wave functions of the non... ...are the classical values. We show how, in the case of very large  $M$ , the superposition principle leads to de Broglie resonances."

**Dialog eLink: STIC Full Text Retrieval Options**

6/K/31

DIALOG(R)File 239: Mathsci

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02262299 MR 92e#03029

**Kongruenzen auf abgeschlossenen Mengen linearer Funktionen in mehrwertigen Logiken.**

Congruences on closed sets of linear functions in many-valued logics

Lau, Dietlinde (Sektion der Mathematik, Universitat Rostock, D-2500 Rostock, Federal Republic of Germany)

**Corporate Source Codes:** D-ROST

Rostock. Math. Kolloq.

Rostocker Mathematisches Kolloquium , 1991 , No. 43 3-16. **ISSN:** 0138-3248

**Language:** German

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (27 lines)

**Reviewer:** Denecke, Klaus (D-POT)

...functions defined on the finite set  $E$ . The operations  $\circ$ ,  $\wedge$ ,  $\tau$ ,  $\Delta$ ,

$\nabla$  describe the superposition of functions of  $P \subseteq E$ . In this paper, subalgebras of the algebra  $(P; \dots, \cdot, \nabla, i)$ . On each subalgebra of  $(L \subseteq M; *, \cdot, \tau, \Delta, \nabla)$  containing the function  $d$  with  $d(x, y, z) = x + y - z$  there exist only the congruences  $\kappa$ . Subclasses  $A \subseteq P \subseteq E$  there are only countably many congruences.

If we consider (superposition-)closed classes of functions containing all projections as term function classes of finite algebras then...

6/K/32

DIALOG(R)File 239: Mathsci

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02141231 MR 90f#35001

**Elements of Green's functions and propagation.**

Potentials, diffusion, and waves.

Barton, G. (Department of Mathematics, University of Sussex, Falmer, Brighton Sussex, BN1 9QH, England)

(Barton, Gabriel)

**Corporate Source Codes:** 4-SUSX

**Publisher:** The Clarendon Press, Oxford University Press, New York,

1989 , xiv+465 pp. **ISBN:** 0-19-851988-5; 0-19-851998-2

**Series:** Oxford Science Publications.

**Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (19 lines)

**Reviewer:** Peters, J. M. H. (4-LIVEP)

...approach uses the idea of point sources and their effects, described, respectively, by the Dirac delta and the Green functions . It is shown in particular how these elements may be combined under the principles of linearity and superposition to obtain, in most cases, formal solutions to the boundary and initial value problems which...

**Dialog eLink:** [STIC Full Text Retrieval Options](#)

6/K/33

DIALOG(R)File 239: Mathsci

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02104808 MR 89k#81188

**Classical and quantum scattering on a cone.**

Deser, S. (Department of Physics, Brandeis University, Waltham, Massachusetts, 02254)

Jackiw, R. (Center for Theoretical Physics, Massachusetts Institute of Technology, Cambridge, Massachusetts, 02139)

**Corporate Source Codes:** 1-BRND-P; 1-MIT-TP

Comm. Math. Phys.

Communications in Mathematical Physics , 1988 , 118 , no. 3, 495--509. ISSN:  
0010-3616 CODEN: CMPHAY

Language: English

Subfile: MR (Mathematical Reviews) AMS

Abstract Length: LONG (47 lines)

Reviewer: Lehto, Markku (SF-JVSK-P)

...If in the conical situation one decomposes the wave function, which is expressed as a superposition of partial waves, into an incident wave and a scattered wave, one notices that the... ...is an ordinary plane wave but the scattering amplitude associated to the scattered part contains delta functions . However, there exists an alternative construction without any delta functions in the scattering amplitude, viz. one may move those delta functions into the incident wave (it becomes a discontinuous superposition of plane waves) in which case the scattering amplitude becomes real having no delta function terms. This kind of a scattering solution can be obtained by evaluating a contour-integral...

Dialog eLink: [STIC Full Text Retrieval Options](#)

6/K/34

DIALOG(R)File 239: Mathsci

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02071198 MR 89c#47083

**Demicontinuity of Nemitsky operators on Orlicz-Sobolev spaces.**

Hardy, Grahame (Department of Mathematics, University of Queensland, St. Brisbane, QLD 4067, Australia)

Corporate Source Codes: 5-QLD

Bull. Austral. Math. Soc.

Bulletin of the Australian Mathematical Society , 1988 , 37 , no. 1, 29--42. ISSN:

0004-9727 CODEN: ALNBAB

Language: English

Subfile: MR (Mathematical Reviews) AMS

Abstract Length: SHORT (7 lines)

Reviewer: Zabreiko, P. P. (Minsk)

...generalization of the Marcus-Mizel theorem on demicontinuity (i.e. "strong-weak" continuity) of the superposition operator  $\$F(u)(x)=f(x,u(x))\$$  in Lebesgue-Sobolev spaces for the case... ...Sobolev space  $\$W^{1,p}(\Omega)\$$ , where  $\$Q\$$  and  $\$P\$$  are  $\$N\$$ -functions that satisfy the  $\$\Delta_2\$$ -condition and some other sufficiently restrictive conditions.

6/K/35

DIALOG(R)File 239: Mathsci

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02069365 MR 89c#00008

**Kraevye zadachi.**

Boundary value problems

Edited by N. V. Azbelev.

**Contributors:** Azbelev, N. V.

**Publisher:** Perm. Politekhn. Inst., Perm,  
1983 , 204 pp.

**Language:** Russian

Boundary value problems

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (99 lines)

**Reviewer:** Editors

...generalized perturbations (pp. 11--13, 191); A. G. Lyamin, On the problem of an inner superposition operator in a space of generalized functions (pp. 14--17, 191--192); V. G. Brodovskii... ...a system of linear homogeneous differential equations with variable coefficients perturbed by impulses of Dirac delta - function type (pp. 52--57, 195); A. I. Domoshnitskii, On the problem of the conditions for... ...a singular integro-differential operator (pp. 79--83, 197); M. E. Drakhlin, A nonlinear inner superposition operator (pp. 83--85, 197); V. G. Abdrikhmanov and Yu. N. Smolin, Volterra-conjugate functional...

6/K/36

DIALOG(R)File 239: Mathsci

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01971164 **MR** 87g#47107

**On analyticity conditions for the superposition operator in ideal function spaces.**

Appell, J. (Mathematisches Institut, Universitat Augsburg , 8900 Augsburg, Federal Republic of Germany)

Zabrejko, P. P. (Department of Mechanics and Mathematics, Byelorussian State University, 220080 Minsk, USSR)

( Zabreiko, P. P. )

**Corporate Source Codes:** D-AGSB; 2-BYEL

Boll. Un. Mat. Ital. C (6)

Unione Matematica Italiana. Bollettino. C. Serie VI. Analisi Funzionale e Applicazioni , 1985 , 4 , no. 1, 279--295. **CODEN:** BOLMAM

**Language:** English **Summary Language:** Italian

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (13 lines)

**Reviewer:** Summary

**On analyticity conditions for the superposition operator in ideal function spaces.**

**Summary:** ``We give necessary and sufficient conditions for the analyticity of the superposition operator (Nemytskii operator)  $Fx(s) = f(s, x(s))$  between two ideal spaces of...  $1 < p < \infty$  and, more generally, all Orlicz spaces  $L^p M$  for which the function  $M$  satisfies a  $\Delta_2$  condition. Finally, given an arbitrary Caratheodory function  $f$ , we provide a ``recipe'' for constructing a pair of ideal spaces such that the superposition operator  $F$  induced by  $f$  is analytic

**between these spaces."**

**Dialog eLink: STIC Full Text Retrieval Options**

6/K/37

DIALOG(R)File 239: Mathsci

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01863433 MR 85f#70041

**Frequenzmitnahme bei zwangs- und selbsterregten mechanischen Schwingungen.**

Synchronization of frequency in forced and mechanical self-excited vibrations

Hortel, M. (Mathematics Institute, Czechoslovak Academy of Sciences (CSAV), 115 Prague, Czechoslovakia)

Schmidt, G. (Zentralinstitut fur Mathematik und Mechanik, Akademie der Wissenschaften der DDR (AdW), Berlin, German Democratic Republic)  
( Schmidt, Gunter )

**Corporate Source Codes:** CS-CSAV; DDR-ADW-B

Z. Angew. Math. Mech.

Zeitschrift fur Angewandte Mathematik und Mechanik. Ingenieurwissenschaftliche Forschungsarbeiten, 1984, 64, no. 1, 23--30. ISSN: 0044-2267 CODEN: ZAMMAX

**Language:** German **Summary Language:** English, Russian

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (39 lines)

**Reviewer:** Nocilla, Silvio (Turin)

... $r\cos n\tau + s\sin n\tau$  \$, where \$K(\tau, \sigma)\$ is the Green function and \$\delta\_{n\sigma} \delta\_{\lambda\lambda}\$ the Kronecker symbol. In the resonance case \$\lambda=n\$ ... in an equation of van der Pol type. They obtain the approximate solution as the superposition of two vibrations with different frequencies and amplitudes, corresponding to self-excited and forced vibrations...

**Dialog eLink: STIC Full Text Retrieval Options**

6/K/38

DIALOG(R)File 239: Mathsci

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01766141 MR 84m#76029c

**Theoretical and numerical methods for the nonlinear Fourier analysis of shallow-water wave data.**

Osborne, A. R.

Provenzale, A.

Bergamasco, L.

Nuovo Cimento C (1)

Il Nuovo Cimento. C. Serie 1, 1982, 5, no. 6, 633--648. ISSN: 0390-5551

**CODEN:** NIFCAS

**Language:** English **Summary Language:** Italian, Russian

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (59 lines)

**Reviewer:** Authors' summary

...In this context one may demonstrate that a packet may be viewed as the linear superposition of infinitely many, infinitely long sinusoids ('elementary wavelets'). It is possible, through the nontrivial introduction of generalized function theory, to show that each sinusoid corresponds to a Dirac delta - function Fourier wave number spectrum (the corresponding 'elementary spectrum'). In the first paper we investigate an ... ...nonlinear theory to consider only finite-amplitude spectra and this eliminates the possibility of a delta - function representation. But, by assuming a finite amplitude, rectangular elementary spectrum (with infinitesimal width and centred... ...a nonlinear wave packet solution to the KdV equation might be representable as the nonlinear superposition of infinitely many, infinitely long Stokes waves. We also derive an approximate expression for the...

**Dialog eLink:** STIC Full Text Retrieval Options

6/K/39

DIALOG(R)File 239: Mathsci

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01705899 MR 83c#42004

**Integral moduli of smoothness and Fourier coefficients of the superposition of functions.**

Saakyan, A. A.

Mat. Sb. (N.S.)

Matematicheskii Sbornik. Novaya Seriya , 1979 , 110(152) , no. 4, 597--608. ISSN: 0368-8666

**Language:** Russian

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (16 lines)

**Reviewer:** From the text

**Integral moduli of smoothness and Fourier coefficients of the superposition of functions.**

...Theorem 1: For an arbitrary function  $f(x) \in C(0, 2\pi)$  and any function  $\omega(\delta)$  satisfying the conditions  $0 \leq \delta_1 < \omega(\delta_1) < \delta_2$ ...

6/K/40

DIALOG(R)File 239: Mathsci

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01285233 MR 44##2440

**A method of quantization for relativistic fields.**

Hammer, C. L.  
Tucker, R. H.  
J. Mathematical Phys.  
1971 , 12 , 1327--1333

**Language:** English  
**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (27 lines)

**Reviewer:** Grasser, H. S. P.

...Fourier coefficients are required to be Fock-space operators whose commutators are either zero or delta functions . The paper under review describes another apparently more general method, insofar as the commutators of... ...Fock-space operators corresponding to the expansion coefficients do not have to be zero or delta functions . No canonical formalism is required. The equations of motion for the field as well as....particle fields. The formalism also is shown to hold for fields as well as a superposition of fields, of arbitrary mass and spin. The content is briefly as follows: The creation...

6/K/41  
DIALOG(R)File 239: Mathsci  
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01269977 MR 42##4854  
**Techniques in partial differential equations.**

Chester, Clive R.

**Publisher:** McGraw-Hill Book Co., New York-Dusseldorf-London  
1971 , xvi+440 pp.

**Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (35 lines)

**Reviewer:** Greenspan, D.

...integral equation formulations. Topics fundamental to the development of these methods, such as canonical transformations, superposition , characteristics, bicharacteristics, lagrange and Eulerian representations, radiation conditions, complete integrals, Lagrange brackets, Riemann invariants, the Hugoniot function, the hodograph transformation, Huygens' principle, transversality, Monge cones, the Hamiltonian, contact transformations, the delta function , and the Laplace, Fourier, Mellin, and Hankel transforms are developed with clarity and, usually, with...

6/K/42  
DIALOG(R)File 239: Mathsci  
(c) 2007 American Mathematical Society. All rights reserved.

01242459 MR 39##3774  
**Representation of the Wightman function in terms of two-point singular functions.**

Minami, Masatsugu  
Progr. Theoret. Phys.  
1969 , 41 , 527--541

**Language:** English  
**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** SHORT (10 lines)

Author's summary: ``The  $n$ -point vacuum expectation value is written as the 'mass'-superposition of the integral whose integrand is the product of the two-point  $\Delta$  and  $\Delta \{(1)\}$  functions . In the three-point case, it is compared with the graph-theoretical representation previously introduced...

6/K/43

DIALOG(R)File 239: Mathsci  
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01221841 MR 36##4877

**Generalized functions in elementary particle physics and passive system theory:  
Recent trends and problems.**

Guttinger, W.  
SIAM J. Appl. Math.  
1967 , 15 , 964--1000

**Language:** English  
**Subfile:** MR (Mathematical Reviews) AMS  
**Abstract Length:** LONG (45 lines)

**Reviewer:** Antoine, J.-P.

...of generalized functions, generalized Hilbert transform and unsubtracted dispersion relations, infinite series of derivatives of delta functions and high frequency (or energy) bounds; formal series and rigged Hilbert spaces are only mentioned... ...system function  $S$  (" $S$ -matrix") and the admittance can be represented as a continuous infinite superposition of undamped harmonic oscillators. Similarly, interesting applications are found in quantum field theory (spectral representations...

6/K/44

DIALOG(R)File 239: Mathsci  
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01157687 MR 28##902

**A variational method for non-linear spinor theory.**

Sekine, Katsuhiko  
Nuclear Phys.  
1963 , 44 , 195--204  
**Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (23 lines)

**Reviewer:** Dell'Antonio, G. F.

...any state of the system) subject to the following conditions: (a) the field is a superposition of a denumerable number of free fields, some of which are quantized by introducing a... ...off  $\Lambda$  goes to infinity, with the condition under which the two-point Green's function is free of  $\delta$  and  $\delta'$  singularities on the light cone. The condition is, however, not sufficient and in...

6/K/45

DIALOG(R)File 239: Mathsci

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01152255 MR 27##2219

**Diffraction of singular fields by a half-plane.**

Papadopoulos, Michael

( Papadopoulos, V. M. )

Arch. Rational Mech. Anal.

1963 , 13 , 279--295

**Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (30 lines)

**Reviewer:** Heins, A. E.

...the two-dimensional and the three-dimensional wave equation may be expressed as a weighted superposition of singular plane waves. This superposition involves a single integration when it is related to a point source of constant strength... ...process to be described involves the problem of the scattering of a plane pulse of delta function profile by the half-plane. The incident field is homogeneous and of degree - 1 in...

6/K/46

DIALOG(R)File 239: Mathsci

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01149839 MR 26##7308

**Theory of dipole antenna as a boundary problem.**

Pelzner, Eugeniusz

Proc. Vibration Problems

1962 , 3 , 305--324

**Language:** English **Summary Language:** Polish, Russian

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (13 lines)

**Reviewer:** Anderson, W. L.

...a small gap at its center. Boundary conditions (one of them in terms of a  $\delta$ -

function ) are applied to the Hertz vector, expressed as a superposition of solutions to the Helmholtz equation. The problem is then reduced to the solution of...

6/K/47

DIALOG(R)File 239: Mathsci

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01134410 MR 24##B447

**On the optimum range resolution of radar signals in noise.**

Nilsson, N. J.

IRE Trans.

1961 , IT-7 , 245--253

**Language:** English

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** LONG (60 lines)

**Reviewer:** Youla, D. C.

...transmitted into a stationary target environment, the received echo  $\$S(t)\$$  will be a linear superposition of like signals. In fact,  $\$\$ S(t)=\int_0^T \delta(t-\tau) s(\tau) d\tau \$\$$  where  $\delta(t-\tau)$  is the Dirac delta function .

In general, the echo  $\$S(t)\$$  is not received clearly, but is contaminated by noise...

6/K/48

DIALOG(R) File 239: Mathsci

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01046257 MR 13,704b

**Sur les points d'un prisme elastique, ou la rupture s'amorce lorsqu'il est soumis a des efforts croissants.**

Teissier du Cros, Francois

C. R. Acad. Sci. Paris

1952 , 234, , 47--49

**Language:** French

**Subfile:** MR (Mathematical Reviews) AMS

**Abstract Length:** MEDIUM (23 lines)

**Reviewer:** Morris, R. M.

...instant of fracture for the material. The constraint being two-dimensional, he defines the following functions  $\$ \$ \delta(x,y,t)=s \cdot t(x,y)-r \cdot \delta(x,y), \quad s \dots \text{prism}, \text{ then } \epsilon \text{ belongs entirely to the boundary. Further, any state of equilibrium being the superposition of two central states having centres } a, b, \text{ then, provided a certain relationship is satisfied...}$

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S2	2121	DELTA (3N) FUNCTION?
S3	18	MUTUALLY (3N) TRANSLATED
S4	0	S1 AND S2 AND S3
S5	1569853	PREDICT? ?
S6	10128184	VALUE
S7	2392	(S1 OR S2) AND (S5 OR S6)
S8	336	1 AND S2 AND S5 AND S6
S9	287	RD (unique items)
S10	6	9 AND S3

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10/K/1 (Item 1 from file: 9)  
DIALOG(R)File 9: Business & Industry(R)  
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04099578 Supplier Number: 153186200 (**USE FORMAT 7 OR 9 FOR FULLTEXT**)  
**How to move on: the past few months have taken their toll on Eads, but the group is determined to press ahead.**  
**( European Aeronautic Defence and Space Company )**

Airfinance Journal , n 293 , p 30

September 2006

**Document Type:** Journal **ISSN:** 0143-2257 ( United Kingdom )

**Language:** English **Record Type:** Fulltext

**Word Count:** 2150 (**USE FORMAT 7 OR 9 FOR FULLTEXT**)

**TEXT:**

It is 9 :45am on a hot summer's day in the English countryside. Tom Enders  
peels off...

...how across its divisions and particularly at its space operations.  
However, these synergies have not translated into mutually  
beneficial  
and commercially viable components, particularly at Airbus, where  
composites could be of great benefit...

10/K/2 (Item 1 from file: 15)

DIALOG(R)File 15: ABI/Inform(R)

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03136561 1138571851

**How to move on**

Anonymous

Airfinance Journal pp: 1

Sep 2006

**ISSN: 0143-2257 Journal Code: AIF**

**Word Count: 2212**

**Text:**

...group is determined to press ahead. Siqalane Taho and Janet Du  
Chenne  
report.

It is 9 :45am on a hot summer's day in the English countryside. Tom  
Enders  
peels off...

...how across its divisions and particularly at its space operations.  
However, these synergies have not translated into mutually  
beneficial  
and commercially viable components, particularly at Airbus, where  
composites could be of great benefit...

10/K/3 (Item 2 from file: 15)  
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02555041 268853411

**Business strategy and approaches to HRM: A case study of new developments in the United Kingdom restaurant industry**

Kelliher, Clare; Perrett, Gilly  
Personnel Review v30n4 pp: 421-437  
2001  
**ISSN:** 0048-3486 **Journal Code:** PRV  
**Word Count:** 8104

**Text:**

...the importance of HR in delivering the goals of the business, this had not been translated into "mutually consistent policies" designed to foster a willingness in employees to act flexibly in the organisation...  
London.

Harmer, J. (1996), "Where table meets style", Caterer and Hotelkeeper, 11 January, pp. 38- 9 . Hendry, C. and Pettigrew, A. (1986), "The practice of strategic human resource management", Personnel Review...

...1999) 'New approaches to HRM in the UK hotel industry", Human Resource Management fournal, Vol. 9 No. 2, pp. 64-76.

Jackson, S.E., Schuler, R.S. and Rivero, J.C...

10/K/4 (Item 3 from file: 15)  
DIALOG(R)File 15: ABI/Inform(R)  
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02397225 144103681

**Information, knowledge and the close of Friedrich Hayeks' system: A comment**

Boettke, Peter J  
Eastern Economic Journal v28n3 pp: 343-349  
Summer 2002  
**ISSN:** 0094-5056 **Journal Code:** EEJ  
**Word Count:** 3445

**Text:**

...practice are the byproduct of the market process, not behavioral

postulates prior to that process. 9

The market economy in Hayek's system of thought does not owe its advantages to...

...consent that actors are able to exploit their local knowledge in a way that is translated in a mutually beneficial way to other participants within the system so they can also utilize their local...economics and market process economics [Kirzner, 1979; Thomsen, 1992].

2. See Boettke [2000] for a 9 -volume reference collection of the main texts in the debate over socialism, The introduction to...

...in the socialist commonwealth and Hayek's argument on the use of knowledge in society.

9 . This filtering mechanism of the competitive market process has been emphasized by writers such as...price searcher model of the competitive market process see Heyne, Boettke and Prychitko [2002, Chapters 9 - 10].

10. See my review of Stiglitz's Whither Socialism? [Boettke, 1996].  
Also  
see Caldwell...

10/K/5 (Item 4 from file: 15)

DIALOG(R)File 15: ABI/Inform(R)

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01140115 97-89509

### **The role of lexicons in natural language processing**

Guthrie, Louise; Pustejovsky, James; Wilks, Yorick; Slator, Brian M  
Communications of the ACM v39n1 pp: 63-72  
Jan 1996

**ISSN: 0001-0782 Journal Code: ACM**

**Word Count: 7564**

#### **Text:**

...text of LDOCE (see, for example, Vossen; Wilks, Fass, Guo, McDonald, Plate and Slator, in [ 9 ]).

There have been successful efforts, with various dictionaries, to create networks from the genus terms...a node is two levels down). The Cambridge

group (see Alshawi; Boguraev and Briscoe in [ 9 ]), developed similar, but not identical, heuristic procedures that, to a great extent, automate the task...

...range of dictionaries and has provided extensive studies on the structure of LDOCE. Vossen in [ 9 ] has created complete networks of noun senses for both LDOCE and the Dutch Van Dale...

...in [2]) and to acquiring information about control and logical type of predicates (see [2, 9 ]);

\* From constructing simple taxonomies for verbs and nouns [1] to fleshing out semantic networks (see Alshawi in [ 9 ]) to building semantically sound lexical hierarchies (see Beckwith, Fellbaum, Gross, and Miller in [25]);  
\* From...Scanning system for Corpus Oriented Tasks (ASCOT) project at the University of Amsterdam. Akkerman in [ 9 ] made a very thorough and revealing comparison between the grammar coding schemes of LDOCE and...

...on-line resource, and it turns out that the bulk of their codings can be mutually translated back and forth. Other projects that make use of the ASCOT lexicon include TOCSA (ASCOT...

...reimplement the Linguistic String Project grammar of Naomi Säger.

Vossen, Meijis, and den Broeder in [ 9 ] describe how they participate in the LINKS project, a research program using LDOCE that has...is directed to the several excellent edited collections that have emerged in that time [2, 9 , 11, 12, 16, 22, 25] and to the single existing comprehensive survey [24]. The task...Committee). Proceedings of the 14th International Conference on Computational Linguistics (COLING-92) (Nantes, France) 1992.

9 . Boguraev, B. K., and Briscoe, T., Eds. Computational Lexicography for Natural Language Processing. Longman Group...

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02670194 **Supplier Number:** 96039414 (USE FORMAT 7 OR 9 FOR FULLTEXT )  
**The role of lexicons in natural language processing**

Guthrie, Louise; Pustejovsky, James; Wilks, Yorick; Slator, Brian M  
Communications of the ACM ( GACM ), v39 n1 , p 63-72  
Jan 1996

**ISSN:** 0001-0782    **Journal Code:** GACM

**Document Type:** Feature

**Language:** English    **Record Type:** Fulltext; Abstract

**Word Count:** 7564    **Length:** Long (31+ col inches)

**Text:**

...text of LDOCE (see, for example, Vossen; Wilks, Fass, Guo, McDonald, Plate and Slator, in

9

).

There have been successful efforts, with various dictionaries, to create networks from the genus terms...a node is two levels down). The Cambridge group (see Alshawi; Boguraev and Briscoe in

9

), developed similar, but not identical, heuristic procedures that, to a great extent, automate the task...

...range of dictionaries and has provided extensive studies on the structure of LDOCE. Vossen in

9

has created complete networks of noun senses for both LDOCE and the Dutch Van Dale...

...in

2

) and to acquiring information about control and logical type of predicates (see

2, 9

);

\* From constructing simple taxonomies for verbs and nouns

1

to fleshing out semantic networks (see Alshawi in

9

) to building semantically sound lexical hierarchies (see Beckwith,

Fellbaum, Gross, and Miller in

25

);

\* From...Scanning system for Corpus Oriented Tasks (ASCOT) project at

the University of Amsterdam. Akkerman in

9

made a very thorough and revealing comparison between the grammar coding schemes of LDOCE and...

...on-line resource, and it turns out that the bulk of their codings can be mutually translated back and forth. Other projects that make use of the ASCOT lexicon include TOCSA (ASCOT...

...reimplement the Linguistic String Project grammar of Naomi Sager.

Vossen, Meijis, and den Broeder in

9

describe how they participate in the LINKS project, a research program using LDOCE that has...is directed to the several excellent edited

collections that have emerged in that time

2, 9 , 11, 12, 16, 22, 25

and to the single existing comprehensive survey

24

. The task...Committee). Proceedings of the 14th International Conference on Computational Linguistics (COLING-92) (Nantes, France) 1992.

9 . Boguraev, B. K., and Briscoe, T., Eds. Computational Lexicography for Natural Language Processing. Longman Group...

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You have saved 0 citations[Display citations on this page as transliteration of original alphabet.](#)**1. [Design of Graded-Index Lenses in the Superposition Eyes of Scarab Beetles](#)**[S. Caveney; P. McIntyre](#)*Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences* > Vol. 300 (1981), pp. 589-632

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Stable URL:

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*Philosophical Transactions of the Royal Society of London. Series A, Mathematical and Physical Sciences* > Vol. 305, No. 1489, The Evolution of Sedimentary Basins (May, 1982), pp. 295-317  
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Dorje C. Brody; Lane P. Hughston  
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<http://links.jstor.org/sici?&sici=1364-5021%2820010608%29457%3A2010%3C1343%3AIRAIG%3E2.0.>  
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*Proceedings of the National Academy of Sciences of the United States of America* > Vol. 94, No. 24 (Dec. 1, 1997), pp. 11845-11850  
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Jan A. Van Mieghem  
*Management Science* > Vol. 45, No. 7 (Jul., 1999), pp. 954-971  
Stable URL:  
<http://links.jstor.org/sici?&sici=0025-1909%28199907%2945%3A7%3C954%3ACIPAS%3E2.0.C>  
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